

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/975,123

DATE: 11/01/2001
TIME: 08 41:48

Input Set : A:\ES.txt
Output Set: N:\CRF3\11012001\I975123.raw

3 <110> APPLICANT: Susan M. Freier
6 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF INSULIN-LIKE GROWTH FACTOR BINDING
PROTEIN 5
7 EXPRESSION
9 <130> FILE REFERENCE: RTS-0253
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/975,123
C--> 11 <141> CURRENT FILING DATE: 2001-10-09
11 <160> NUMBER OF SEQ ID NOS: 43
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 20
16 <212> TYPE: DNA
17 <213> ORGANISM: Artificial Sequence
19 <220> FEATURE:
21 <223> OTHER INFORMATION: Antisense Oligonucleotide
23 <400> SEQUENCE: 1
24 tccgtcatacg ctccctcaggg 20
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 20
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
34 <223> OTHER INFORMATION: Antisense Oligonucleotide
36 <400> SEQUENCE: 2
37 atqcattctg cccccaagga 20
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 1612
42 <212> TYPE: DNA
43 <213> ORGANISM: Homo sapiens
45 <220> FEATURE:
47 <220> FEATURE:
48 <221> NAME/KEY: CDS
49 <222> LOCATION: (44)...(862)
51 <400> SEQUENCE: 3
52 ctccatgtcc cccaccccaq qtaaaaqqqq ccaactaaqaq aaq atq qtq ttq ctc 55
53 Met Val Leu Leu
54 1
55 aac qcq qtc ctc ctq ctq qcc qcc tat qcq qqq ccc qcc caq aqc 103
56 Thr Ala Val Leu Leu Ala Ala Tyr Ala Gly Pro Ala Gln Ser
57 5 10 15 20
58 60 ctq ggc tcc ttc qtq cac tgc gag ccc tgc qac gaa aaa qcc ctc tcc 151
61 Leu Gly Ser Phe Val His Cys Glu Pro Cys Asp Glu Lys Ala Leu Ser
62 25 30 35
64 atq tgc ccc ccc aqc ccc ctq qqc tgc qag ctq gtc aaq qaq ccc qqc 199
65 Met Cys Pro Pro Ser Pro Leu Gly Cys Glu Leu Val Lys Glu Pro Gly

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72	gtc	taa	acc	gag	cgc	tgc	gcc	cag	ggg	ctg	cgc	tgc	ctc	ccc	cgg	cag	295
73	Val	Tyr	Thr	Glu	Arg	Cys	Ala	Gln	Gly	Leu	Arg	Cys	Leu	Pro	Arg	Gln	
74	70			75						80							
76	gac	gag	gag	aag	cgc	ctg	cac	gcc	ctg	cac	ggc	cgc	ggg	gtt	tgc	343	
77	Asp	Glu	Glu	Lys	Pro	Leu	His	Ala	Leu	Leu	His	Gly	Arg	Gly	Val	Cys	
78	85			90						95				100			
80	ctc	aac	qaa	aag	agc	tac	cgc	gag	caa	gtc	aag	atc	gag	aga	gac	ttc	391
81	Leu	Asn	Glu	Lys	Ser	Tyr	Arg	Glu	Gln	Val	Lys	Ile	Glu	Arg	Asp	Ser	
82				105						110				115			
84	cgt	gag	cac	gag	gag	ccc	acc	acc	tct	gag	atg	gcc	gag	gag	acc	ttc	439
85	Arg	Glu	His	Glu	Glu	Pro	Thr	Thr	Ser	Glu	Met	Ala	Glu	Glu	Thr	Tyr	
86				120						125				130			
88	tcc	ccc	aag	atc	tcc	cgg	ccc	aaa	cac	acc	cgc	atc	tcc	gag	ctg	aag	487
89	Ser	Pro	Lys	Ile	Phe	Arg	Pro	Lys	His	Thr	Arg	Ile	Ser	Glu	Leu	Lys	
90				135						140				145			
92	gtc	gaa	gca	gtg	aag	atg	gac	cgc	aga	aag	atg	ctg	aag				535
93	Ala	Glu	Ala	Val	Lys	Lys	Asp	Arg	Arg	Lys	Lys	Leu	Thr	Gln	Ser	Lys	
94				150						155				160			
96	ttt	gtc	ggg	gqa	gcc	gag	aac	act	gcc	cac	ccc	cgg	atc	atc	tct	gca	583
97	Phe	Val	Gly	Gly	Ala	Glu	Asn	Thr	Ala	His	Pro	Arg	Ile	Ile	Ser	Ala	
98	165			170						175				180			
100	cct	gag	atg	aga	cag	gag	tct	gag	cag	ggc	ccc	tgc	cgc	aga	cac	atg	631
101	Pro	Glu	Met	Arg	Gln	Glu	Ser	Glu	Gln	Gly	Pro	Cys	Arg	Arg	His	Met	
102				185						190				195			
104	gag	gct	tcc	ctg	cag	gag	ctc	aaa	gcc	agc	cca	cgc	atg	gtg	ccc	cgt	679
105	Glu	Ala	Ser	Leu	Gln	Glu	Leu	Lys	Ala	Ser	Pro	Arg	Met	Val	Pro	Arg	
106				200						205				210			
108	gct	gtg	tac	ctg	ccc	aat	tgt	gac	cgc	aaa	gga	tcc	tac	aaq	aga	aag	727
109	Ala	Val	Tyr	Leu	Pro	Asn	Cys	Asp	Arg	Lys	Gly	Phe	Tyr	Lys	Arg	Lys	
110				215						220				225			
112	cag	tgc	aaa	cct	tcc	cgt	ggc	cgc	aag	cgt	ggc	atc	tgc	tgg	tgc	gtg	775
113	Gln	Cys	Lys	Pro	Ser	Arg	Gly	Arg	Lys	Arg	Gly	Ile	Cys	Trp	Cys	Val	
114				230						235				240			
116	qac	aag	tac	ggg	atg	aag	ctg	cca	ggc	atg	qag	tac	gtt	gac	ggg	qac	823
117	Asp	Lys	Tyr	Gly	Met	Lys	Leu	Pro	Gly	Met	Glu	Tyr	Val	Asp	Gly	Asp	
118	245			250						255				260			
120	ttt	caq	tgc	cac	acc	tcc	qac	agc	agc	aac	qtt	gag	tqa	tgcgtcccc		872	
121	Phe	Gln	Cys	His	Thr	Phe	Asp	Ser	Ser	Asn	Val	Glu					
122				265						270							
124	ccccaaaccttt	cccttcaacc	ccccacc	ccatcc	cccccc	ccatcc	cccccc	ccatcc	932								
126	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	992
128	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	1052
130	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	1112
132	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	1172
134	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	1232
136	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	1292
138	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	1352
140	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	cccccc	1412
																1472	

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144	cttttacctg	ggcagagtgt	tgtctctccc	caaatttata	aaaactaaaa	tgcattccat	1532
146	tcctctgaaa	gaaaaacaaa	ttcataattg	agtqatatta	aatagaqaaq	ttttcqqaag	1592
148	cgatctgtg	aatatgaaaat					1612
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153	<212>	TYPE:	DNA				
154	<213>	ORGANISM:	Artificial Sequence				
156	<220>	FEATURE:					
158	<223>	OTHER INFORMATION:	PCR Primer				
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161	ccaaaaacacac	ccgcacatcc					19
164	<210>	SEQ ID NO:	5				
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166	<212>	TYPE:	DNA				
167	<213>	ORGANISM:	Artificial Sequence				
169	<220>	FEATURE:					
171	<223>	OTHER INFORMATION:	PCR Primer				
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174	tggactggg	tcaatatttt	tc				22
177	<210>	SEQ ID NO:	6				
178	<211>	LENGTH:	26				
179	<212>	TYPE:	DNA				
180	<213>	ORGANISM:	Artificial Sequence				
182	<220>	FEATURE:					
184	<223>	OTHER INFORMATION:	PCR Probe				
186	<400>	SEQUENCE:	6				
187	aaatgtgaagc	agttaaagaag	gaccgc				26
190	<210>	SEQ ID NO:	7				
191	<211>	LENGTH:	19				
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200	aaaaatgtgaag	gtcgaggatc					19
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206	<213>	ORGANISM:	Artificial Sequence				
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217	<211>	LENGTH:	20				
218	<212>	TYPE:	DNA				
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221	<220>	FEATURE:					

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225 <400 > SEQUENCE: 9
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229 <210 > SEQ ID NO: 10
230 <211 > LENGTH: 1722
231 <212 > TYPE: DNA
232 <213 > ORGANISM: Homo sapiens
234 <220 > FEATURE:
236 <220 > FEATURE:
237 <221 > NAME/KEY: CDS
238 <222 > LOCATION: (752)...(1570)
240 <400 > SEQUENCE: 10
241 qjqqqaaaaga gctaggaaag aqctgc aaag cagtgtggc tttttccctt tttttgtcc 20
243 ttttcaattac ccccttcgg ttttccaccc ttcggact tcgcgttagaa cctgcgtatt 120
245 tcgaaaggagga ggtggcaaaag tgggagaaaa gaggtgttag ggtttgggt ttttttgtt 180
247 ttgtttttgt ttttaattt cttgatttca acatttttcc cccaccccttc ggtgcggcc 240
249 aacgcctttt acctgttctg cggcgcgcgcg caccqctqcc aqctqagqgt tagaaagcgg 300
251 qgtgtatttt agatttaag caaaaatttt aaqataaaat ccatttttcc ccccaacccc 360
253 caacqccatc tccactgcat cccatctcat tatttcggc gttgttggg ggtgaacaat 420
255 ttgtggcatt ttttccctt ataattctga cccgttcagg ttgtgggtt ttcggcct 480
257 cccgttcactg cgtgcacccgt ggcgtgcctt gttccccc acctgttgc aaggcttaat 540
259 ttttgcactt gggacctgtt cgcaggcacc ccaggcccttc acctctctt acatttttgc 600
261 aagtgttctgg gggagggcacttgcatttccat tggcagaaat tttaaaaacaa aaacaaaaac 660
263 aaaaaaaatct cggggggccc ttatccctt cactcttgccttccat 720
265 acccccgaggt aaaggggggcg actaagagaa g atg gtg ttg ctc acc gcg gtc 772
266 Met Val Leu Leu Thr Ala Val
267 1 5
269 ctc ctg ctg ctg gcc gcc tat gcg ggg ccc gcc cag agc ctg ggc tcc 820
270 Leu Leu Leu Ala Ala Tyr Ala Gly Pro Ala Gln Ser Leu Gly Ser
271 10 15 20
273 ttc qtg cac tgc gag ccc tgc gac gag aaa gcc ctc tcc atg tgc ccc 868
274 Phe Val His Cys Glu Pro Cys Asp Glu Lys Ala Leu Ser Met Cys Pro
275 25 30 35
277 ccc agc ccc ctg ggc tgc gag ctg gtc aag gag ccc ggc tgc ggc tgc 916
278 Pro Ser Pro Leu Gly Cys Glu Leu Val Lys Glu Pro Gly Cys Gly Cys
279 40 45 50 55
281 tgc atg acc tgc gcc ctg gcc gag ggg cag tgc ggc qtc tac acc 964
282 Cys Met Thr Cys Ala Leu Ala Glu Gly Gln Ser Cys Gly Val Tyr Thr
283 60 65 70
285 qaq ccc tgc qcc caq qqq ctg ccc tgc ccc ccc ccc ccc qac qaq qaq 1012
286 Glu Arg Cys Ala Gln Gly Leu Arg Cys Leu Pro Arg Gln Asp Glu Glu
287 75 80 85
289 aad ccc ctg cac qcc ctg cac qcc ccc qcc qcc qtt tgc ctc aac qaa 1060
290 Lys Pro Leu His Ala Leu His Gly Arg Gly Val Cys Leu Asn Glu
291 90 95 100
293 aag aqc tac ccc qaq ccc qtc aac atc qac aqa qac tcc cgt qaq ccc 1108
294 Lys Ser Tyr Arg Glu Gln Val Lys Ile Glu Arg Asp Ser Arg Glu His
295 105 110 115
297 qaq qaq ccc acc acc tcc tcc tcc tcc tcc tcc aac 1156
298 116 121 126 131 136 141 146 151 156 161 166 171 176 181 186 191 196 201 206 211 216 221 226 231 236 241 246 251 256 261 266 271 276 281 286 291 296 301 306 311 316 321 326 331 336 341 346 351 356 361 366 371 376 381 386 391 396 401 406 411 416 421 426 431 436 441 446 451 456 461 466 471 476 481 486 491 496 501 506 511 516 521 526 531 536 541 546 551 556 561 566 571 576 581 586 591 596 601 606 611 616 621 626 631 636 641 646 651 656 661 666 671 676 681 686 691 696 701 706 711 716 721 726 731 736 741 746 751 756 761 766 771 776 781 786 791 796 801 806 811 816 821 826 831 836 841 846 851 856 861 866 871 876 881 886 891 896 901 906 911 916 921 926 931 936 941 946 951 956 961 966 971 976 981 986 991 996 1001

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VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date